# BOBBY MCDANIEL GRBXM 1-10 GREENE COUNTY

### VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

#### PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

here as "Landowner", and green in effect until it is to the Landowner in the eventindividual parcels identified	<ul> <li>Recvc Systems, Inc.</li> <li>reminated in writing by either</li> <li>t of a sale of one or more pare</li> </ul>	eferred to here as the "F party or, with respect to cels, until ownership of a hose parcels for which o	those parcels that are retained all parcels changes. If ownership was changed will no	by
	er of record of the real proper or reclamation sites identified		م <u>المثارة</u> Virginia, which include dentified on the tax map(s)	3
Table 1.: Parcels aut	horized to receive biosolids, v	water treatment residual	s or other industrial sludges	
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	
38- A-122				
38 - A- 124				
38 - A - 123				
51-A-3				
☐ Additional parcels containing Lan				
In the event that the Lando within 38 months of the late 1. Notify the purchase later than the date 2. Notify the Permittee The Landowner has no oth notify the Permittee immed for application or any part of incorrect.  The Landowner hereby graagricultural sites identified a inspections on the land identified.	est date of biosolids application or transferee of the application of the property transfer; and experience of the sale within two weeks er agreements for land applicately if conditions change suffit this agreement becomes in this permission to the Permittabove and in Exhibit A. The Intified above, before, during of	le owners of the property to whon, the Landowner shall: ble public access and cress following property translation on the fields identich that the fields are no valid or the information had been to land apply residual andowner also grants por after land application of	ies identified herein.  nich biosotids have been applied  rop management restrictions no  sfer.  ified herein. The Landowner will  longer available to the Permitte  nerein contained becomes  Is as specified below, on the  permission for DEQ staff to conc  of permitted residuals for the	e
		ood processing waste Yes ☐ No	Other industrial sludges 図 Yes  ロ No	W - YI
Landowner/- Printed Name, Titl		145	Mailing Address & Phone Number	CAKESCHILL
Editownor - I filted Hame, Ital	o Signature		The second secon	va. 22968
manner authorized by the VPA plan prepared for each land a	A Permit Regulation and in amou oplication field by a person certif	olids and/or industrial residunts not to exceed the ratesied in accordance with §10		nent
			sed schedule for land application a de the source of residuals to be app	

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

Permittee – Authorized Representative Printed Name Signature

PO Box 562 Remington, Virginia 22734

Mailing Address

#### VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Perr	nittee: _	Recyc Sy	stems, Inc	County or City: _	Greene	
Land	downer	: Bobby	McDaniel			
Lan	downe	r Site Mana	gement Requireme	nts:		
				ct Sheet that includes inforr nd proper handling and land		
identi	ified belo	w must be com		hat the site management re have been applied on my proractices.		
	ee to impl		wing site management p	ractices at each site under r	ny ownership following	the land application of
1.		is land applicat		costed by the Permittee for did by the Permittee, until at le		
2.	Public A		s to land with a high pote	ntial for public exposure sha	II be restricted for at lea	ast one year following
	b. c.	any application Public access application of same period of Turf grown or when the han	on of biosolids. to land with a low poten biosolids. No biosolids a of time unless adequate a land where biosolids an	tial for public exposure shal amended soil shall be excav provisions are made to prev e applied shall not be harve ither land with a high potent	be restricted for at least tated or removed from the ent public exposure to set ted for one year after a	st 30 days following any he site during this soil, dusts or aerosols; application of biosolids
3.	a. b. c. d.	estrictions: Food crops w not be harves Food crops w application of months prior t Food crops w biosolids rem Other food cro	ith harvested parts that to ted for 14 months after the ith harvested parts below biosolids when the bioso to incorporation into the s ith harvested parts below ain on the land surface for ops and fiber crops shall	puch the biosolids/soil mixtune application of biosolids.  If the surface of the land shabilids remain on the land surfacil,  If the surface of the land shabilids remain on the land shabilids at time period of less than not be harvested for 30 days after the application	Il not be harvested for 2 ace for a time period of Il not be harvested for 3 four (4) months prior to s after the application o	20 months after the four (4) or more 38 months when the incorporation. If biosolids;
4.	Fol	Meat producing Lactating dair	s application to pasture on ng livestock shall not be g	grazed for 30 days, azed for a minimum of 60 d	ays.	
5.	applicat	tions such that	the total crop needs for n	pplications will be coordinal utrients are not exceeded a with §10.1-104.2 of the Cod	s identified in the nutrie	
6.	years fo		olication of biosolids or in	ulate cadmium, should not l dustrial residuals which bea		
-	اع 13 Landow	vner's Signature	) amil		<b>4 · 3</b> c	0-18
1	3 olls	hunand	) re	145 Medani	el have R	uckersuille L
		Estate, olgitale	· <del>-</del>	141	4.3	4-985-7591

Rev 9/14/2012

### VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOL	LIDS	SANE	חמו (	USTRIA	AL R	ESIDI	JALS
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PART D-VI. LAND APP	LICATION AGREEMEN	1 - BIOSOLIDS AND INDU	19 I KIAL KESIDUALS
here as "Landowner", and remains in effect until it is to the Landowner in the event individual parcels identified	Recyc Systems, Inc; erminated in writing by eithe t of a sale of one or more pa in this agreement changes,		nittee". This agreement se parcels that are retained by arcels changes. If ownership of ership has changed will no
Landowner: The Landowner is the owner the agricultural, silvicultural attached as Exhibit A.	or of record of the real proper or reclamation sites identifi	erty located inerty located inerty located inerty located inerty located in	, Virginia, which includes lified on the tax map(s)
Table 1.: Parcels aut	horized to receive biosolids	, water treatment residuals or	other industrial sludges
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
38-A-122			
38-A-124			
38-A-123			
51-A-3		-	
	d A - 15 - 45 - 10 - 1 - 11 - 11 - 11 - 11 - 11	Outside and A token by the control of the back of the control of t	
☐ Additional parcels containing Land Check one: ☐ The		n supplement A (check it applicable) her of the properties identified	
In the event that the Landow within 38 months of the late 1. Notify the purchase later than the date 2. Notify the Permittee The Landowner has no other notify the Permittee immediator application or any part of incorrect.  The Landowner hereby grand agricultural sites identified a inspections on the land identified purpose of determining commends.	e Landowner is one of multiple where sells or transfers all or st date of biosolids application or transferee of the application of the property transfer; and the of the sale within two weeker agreements for land applicately if conditions change so this agreement becomes in the permission to the Permit bove and in Exhibit A. The stiffed above, before, during upliance with regulatory requirement residuals.	ple owners of the properties in part of the property to which I on, the Landowner shall: able public access and crop notes following property transfer. Cation on the fields identified uch that the fields are no long evalid or the information hereintee to land apply residuals as Landowner also grants permor after land application of peutrements applicable to such a cood processing waste	dentified herein. biosolids have been applied management restrictions no herein. The Landowner will er available to the Permittee in contained becomes a specified below, on the ission for DEQ staff to conduct ermitted residuals for the
To Um (	Mes	annel Ruck	ersville IVA 22968
Layidowner – Printed Name, Title	Signature		Ilng Address & Phone Number 4 - 985. 759
Permittee:			
manner authorized by the VPA	Permit Regulation and in amo	olids and/or industrial residuals ounts not to exceed the rates iden fied in accordance with §10.1-10	itified in the nutrient management
The Permittee agrees to notify specifically prior to any particular specifical	the Landowner or the Landowr ar application to the Landowne	ner's designee of the proposed s r's land. Notice shall include the	chedule for land application and source of residuals to be applied.
☐ I reviewed the document(s) a document(s) available to DEQ	assigning signatory authority to for review upon request. (Do no	the person signing for landowned to the this box if the landowner sig	er above. I will make a copy of this ins this agreement)
Permittee – Authorized Represen Printed Name	tative Signature		mington, Virginia 22734 ling Address

Rev 9/14/2012

#### VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Racyc Systems, Inc County or City: Circene
Landowner: John McDaniel
Landowner Site Management Requirements:
I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the la application of biosolids, the components of biosolids and proper handling and land application of biosolids.
I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.
I agree to implement the following site management practices at each site under my ownership following the land application o biosolids at the site:
<ol> <li>Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site completed.</li> </ol>
<ul> <li>2. Public Access <ul> <li>a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.</li> <li>b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following an application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;</li> <li>c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.</li> </ul> </li> </ul>
<ul> <li>3. Crop Restrictions:</li> <li>a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shan not be harvested for 14 months after the application of biosolids.</li> <li>b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,</li> <li>c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.</li> <li>d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;</li> <li>e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).</li> </ul>
<ul> <li>4. Livestock Access Restrictions: Following biosolids application to pasture or hayland sites: <ul> <li>a. Meat producing livestock shall not be grazed for 30 days,</li> <li>b. Lactating dairy animals shall not be grazed for a minimum of 60 days.</li> <li>c. Other animals shall be restricted from grazing for 30 days;</li> </ul> </li> </ul>
<ol> <li>Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;</li> </ol>
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).
Landowner's Signature Date

Rev 9/14/2012

Farm Operator Signature

Mailing Address & Phone Number

### **FARM DATA SHEET**

SITE NAME:	Bobby McDaniel	COUNTY:	Greene
OWNER:	Bobby F. and Joann C. McDaniel	OPERATOR:	Bobby McDaniel
OWNER'S	145 McDaniel Lane	OPERATOR'S	145 McDaniel Lane
ADDRESS:	Ruckersville, VA 22968	ADDRESS:	Ruckersville, VA 22968
OWNER'S TELEPHONE:	434-985-7591	OPERATOR'S TELEPHONE:	434-985-7591
GENERAL FARM TYPE:	Pasture/ Hay/ Row Crops	CELL PHONE:	-
# CATTLE:	70	EMAIL:	-
LAGOON or SLURRY:	None	LATITUDE:	38.271
TOPO QUAD:	Stanardsville	LONGITUDE:	78.400
COMMENTS:		METHOD OF DETERMINATION:	Online Maps
			-
		_	

5-21-18

## Bobby McDaniel Greene Co.

Old Field 10B is New Field 3.

Part of New Field 3 is Old Field 9.

### RECYC SYSTEMS, INC FIELD DATA SHEET

Field	DEQ	Gross	Enviro	onmentally	Sensitive S			Tax	FSA
				Bed Rock/			Hydro		_
Identification	Control ID	Acres	Water Table	Shallow	Surf/Leach	Freq Flood	Мар	Мар #	Tract #
									T 462
GRBXM 1	51079-00030-0000	13.0	Hb OctMay	AsD	AsD, Hb	Hb OctMay	RA 26	38-A-122	F 2, 5
									T 462
GRBXM 2	51079-00031-0000	18.4	Hb OctMay	-	Hb	Hb OctMay	RA 26	38-A-122	F 6
			_					38-A-122	T 462
GRBXM 3	51079-00038-0000	18.2	Hb OctMay	_	Hb	Hb OctMay	RA 26	51-A-3	F 8
									T 462
GRBXM 4	51079-00032-0000	10.7	Hb OctMay	-	Hb	Hb OctMay	RA 26	38-A-122	F 9
				•					T 464
GRBXM 5	51079-00033-0000	16.4	Hb OctMay	AsD	AsD, Hb	Hb OctMay	RA 26	51-A-3	F 11, 13
				0					T 462
GRBXM 6	51079-00034-0000	4.7	Hb OctMay	-	Hb	Hb OctMay	RA 26	38-A-122	F 1
								38-A-122	T 462
GRBXM 7	51079-00035-0000	11.4	Hb OctMay	-	Hb	Hb OctMay	RA 26	51-A-3	F 8
						<u> </u>			T 464
GRBXM 8	51079-00036-0000	20.9	Hb OctMay	4.3	Hb	Hb OctMay	RA 26	51-A-3	F 14, 15
					AsC, AsD,	-			T 462
GRBXM 9	51079-00037-0000	4.7	Hb OctMay	AsC, AsD	Hb	Hb OctMay	RA 26	51-A-3	F 16
			CgB DecMay					38-A-122	T 462
GRBXM 10	51079-00038-0000	17.8	Hb OctMay	AsC	AsC, Hb	Hb OctMay	RA 26	51-A-3	F 8
TOTAL ACRES IN					1.55,	Time Con many			1
SITE		136.2							

#### VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

#### **Landowner Coordination Form**

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and/or industrial residuals, and each of the legal landowners of those tax parcels. A Land Application Agreement-Biosolids and Industrial Residuals from original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

Permittee:

Recyc Systems, Inc

Site Name:

**Bobby McDaniel** 

County or City:

Greene Co.

Please Print

Signature not required on this page

Tax Parcel ID(s)	<u>Landowners (s)</u>
38-A-122	Bobby F. and Joann C. McDaniel
38-A-124	Bobby F. and Joann C. McDaniel
38-A-123	Bobby F. and Joann C. McDaniel
51-A-3	Bobby F. and Joann C. McDaniel
-	
	<del></del>

Page 1 of 2

**Report Number: 17-254-0556** 

Send To: Recyc Systems Inc Susan Trumbo

> 8455 Whiteshop Road Culpepper VA 22701

**Account Number: 70594** 



7621 Whitepine Road, Richmond, VA 23237 Main 804-743-9401 ° Fax 804-271-6446 www.waypointanalytical.com

"Every acre...Every year."™

Grower: Bobby McDaniel

**SOIL ANALYSIS REPORT** 

Analytical Method(s):

SMP Buffer pH

Mehlich 3 Loss On Ignition Water pH

Date Received: 09/11/2017

Date Of Analysis: 09/12/2017

Date Of Report: 09/12/2017

		ОМ	W/V	ENR			Phosph	orus			Potas	sium	Magne	sium	Calcium	Sodium	p	Н	Acidity	C.E.C
Sample ID Field ID	Lab Number	% Rate	Soil Class	lbs/A	M: ppm	3 Rate	ppm	Rate	ppm	Rate	K ppm	Rate	M ppm		Ca ppm Rate	Na ppm Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
4	23704	5.0 H		136	81	Н					62	L	80	L	1595 H		6.5	6.86	0.7	9.5
5	23705	8.4 VH		150	46	М					295	VH	160	М	1097 M		5.9	6.77	1.6	9.2
8	23706	6.8 H		150	58	н					365	VH	207	Н	1416 M		6.1	6.78	1.5	11.2
10A	23707	5.0 H		139	58	Н					70	L	110	M	1042 M		5.8	6.78	1.5	7.8
3	23709	5.7 H		149	95	Н					117	М	121	L	1636 H		6.5	6.85	0.8	10.3

		Perce	nt Base :	<u>Saturati</u>	on	Nit	rate	Su	lfur	Zir	ic	Manga	inese	Ire	on	Copper	Bor	on	Soluble Salts	
Sample ID Field ID	K %	Mg %	Ca %	Na %	H %		N Rate	_	S Rate	Zı ppm		Mı ppm	n Rate		e Rate	Cu ppm Rate	ppm		SS ms/cm Rate	
4	1.7	7.0	83.9		7.4					5.6	Н	65	VH							
5	8.2	14.5	59.6		17.4					4.5	Н	71	VH							
3	8.4	15.4	63.2		13.4					5.5	Н	52	VH							
10A	2.3	11.8	66.8	_	19.2					5.5	Н	35	Н							
3	2.9	9.8	79.4		7.8					6.1	Н	63	VH							

Values on this report represent the plant available nutrients in the soll. Rating after each value; VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by. Waypoint Analytical Virginia, Inc.,

by: Pauric Mc Geory

Page 2 of 2

**Report Number: 17-254-0556** 

Send To: Recyc Systems Inc Susan Trumbo

**Account Number: 70594** 

Waypoint W

7621 Whitepine Road, Richmond, VA 23237 Main 804-743-9401 ° Fax 804-271-6446 www.waypointanalytical.com

"Every acre...Every year."™

Grower: Bobby McDaniel

Date Received: 09/11/2017

8455 Whiteshop Road Culpepper VA 22701

Date Of Report: 09/12/2017

#### SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N Ib/A	Phosphate P <sub>2</sub> O <sub>5</sub> lb/A	Potash K <sub>2</sub> O Ib/A	Magnesium Mg Ib/A	Sulfur S Ib/A	Zinc Zn Ib/A	Manganese Mn lb/A	Iron Fe Ib/A	Copper Cu lb/A	Boron B Ib/A
4	Adjust pH to 6.8	0	1.0				0			0			
5	Adjust pH to 6.8	0	1.8				0	·	*	0			
8	Adjust pH to 6.8	0	1.5				0			0			
10A	Adjust pH to 6.8	0	1.8				0			0			
3	Adjust pH to 6.8	0	1.0				0			0			

#### Comments:

Sample(s): 10A Crop: Adjust pH to 6.8

Apply dolomitic lime to raise pH and improve the magnesium level.

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Page 1 of 2

**Report Number:** 15-232-0523

**Account Number: 70594** 



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"Every acre...Every year."ты

**Grower: BOBBY MCDANIEL** 

GREENE GRBXM

SUSAN TRUMBO 8455 WHITESHOP RD CULPEPER VA 22701

Send To: RECYC SYSTEMS INC

Submitted By: BB

**SOIL ANALYSIS REPORT** 

Analytical Method(s):

Mehlich 3

Date Received: 08/20/2015

Date Of Analysis: 08/21/2015

Date Of Report: 08/21/2015

		Or	ganic M	atter		Phos	phorus	_	Pota	ssium	Magı	nesium	Cal	cium	Sodium	F		Acidity	C.E.C
Sample ID Field ID	Lab Number	%	Rate	ENR Ibs/A	Met ppm	ilich 3 Rate	Res	serve Rate	ppm	K Rate		Mg Rate	ppm	Ca Rate	Na ppm Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
1	03794	3.8	М	118	35	М			92	М	79	M	498	L		5.1	6.73	2.0	5.4
2	03795	4.8	M	136	42	M			276	VH	179	Н	699	L		5.7	6.78	1.5	7.2
7	03796	5.2	Н	139	20	L			72	L	129	M	1870	VH		7.2		0.0	10.6
8	03797	4.6	М	130	40	М			289	VH	142	М	976	M		5.9	6.79	1.4	8.2
10A	03798	4.7	М	132	47	M			70	L	131	М	1132	M		6.0	6.80	1.3	8.2

		Perce	nt Base	Saturati	on	Nitr	ate	Sı	ılfur	Zi	nc	Mang	anese	lr	on	Cop	per	Во	ron	Soluble	Salts	Chle	oride	Aluminum
Sample ID Field ID	K %	Mg %	Ca %	Na %	Н %	NO ppm	N Rate		S Rate	ppm	n Rate	ppm	n Rate	ppm	e Rate	ppm	u Rate	ppm	B Rate	SS ms/cm			CI Rate	Al ppm
1	4.4	12.2	46.1		37.7					3.2	М	37	Н											
2	9.8	20.7	48.5		21.1					3.9	Н	22	Н											
7	1.7	10.1	88.2		0.0					3.7	Н	56	VH										_ =	
8	9.0	14.4	59.5		17.2					3.1	M	73	VH											
10A	2.2	13.3	69.0		15.4					4.7	Н	63	VH					_						

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Helease. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: Waypoint Analytical Virginia, Inc.

by: Pauric Mc Georg

Page 2 of 2

Report Number: 15-232-0523 Account Number: 70594 Waypoint W

7621 Whitepine Road, Richmond, VA 23237 Main 804-743-9401 ° Fax 804-271-6446 www.waypointanalytical.com

Send To: RECYC SYSTEMS INC

SUSAN TRUMBO 8455 WHITESHOP RD CULPEPER VA 22701

"Every acre...Every year."ты

**Grower:** BOBBY MCDANIEL

GREENE GRBXM

PEPER VA 22701 Submitted By: BB

Date Received: 08/20/2015

Date Of Report: 08/21/2015

#### SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N Ib/A	Phosphate P <sub>2</sub> O <sub>5</sub> Ib/A	Potash K <sub>2</sub> O Ib/A	Magnesium Mg Ib/A	Sulfur S Ib/A	Zinc Zn lb/A	Manganese Mn Ib/A	Iron Fe Ib/A	Copper Cu Ib/A	Boron B Ib/A
1	Adjust pH to 6.8	0	2.3				1			0			
2	Adjust pH to 6.8	0	1.8				0			0			
7	Adjust pH to 6.8	0	0.0				0			0			
8	Adjust pH to 6.8	0	1.8				0			0			
10A	Adjust pH to 6.8	0	1.5				0			0			

#### Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Pauric Mc George

Pauric McGroary

#### THE PLANNER IS NOT STATE CERTIFIED

#### Nutrient Management Plan Balance Sheet (Spring, 2018-Summer, 2020) Bobby McDaniel Planner: John Doe

Tract: 462 Le

Location: Greene

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (Ibs/ac)	Leg /Man Resid	Manure/BiosId Rate & Type (season)	(d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
2, 5/GRBXM 1(N)	14/14	2018	Grass Pasture	50-80-80	0/0		T		50-80-80	N/A			
6/GRBXM 2(N)	19/19	2018	Grass Pasture	50-30-0	0/0				50-30-0	N/A			
8/GRBXM 3(N)	20/20	2018	Fescue grass hay mt.	70-40-85	0/0				70-40-85	N/A			
9/GRBXM 4(N)	12/12	2018	Wheat (grain)	100-30-80	0/0				100-30-80	N/A			
1/GRBXM 6(N)	4/4	2018	Wheat (grain)	100-30-60	0/0				100-30-60	N/A			
8/GRBXM 7(N)	14/14	2018	Barley(silage)	100-80-60	0/0				100-80-60	N/A			
			Soybeans (DC)	0-80-60	0/0				0-160-120	N/A			
16/GRBXM 9(N)	5/5	2018	Wheat (grain)	100-60-60	0/0				100-60-60	N/A			
8/GRBXM 10(N)	20/20	2018	Orchardgrass hay mt.	90-60-185	0/0				90-60-185	N/A			

**Commercial Application Methods:** 

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 464 Location: Greene

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFS# /Nam	A No.	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (Ibs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	(d)	Man/Bios N-P-K (Ibs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
11, 13	3/GRBXM 5(N)	18/18	2018	Grass Pasture	50-30-0	0/0				50-30-0	N/A			
14, 1	5/GRBXM 8(N)	17/17	2018	Grass Pasture	50-0-0	0/0		L		50-0-0	N/A			

Commercial Application Methods: br - Broadcast ba - Banded sd - Sidedress

Notes:

#### Soil Test Summary

Tract	Field	Acre	Date	P2O5	K2O	Lab	lio? Hq	Lime Date	rec. lime tons/Ac
462	GRBXM 1	l	2015-Su	M (35 P ppm)	M (92 K ppm)	A&L MIII	5.1	Date_	tons/Ac
462	GRBXM 2	19		M+ (42 P ppm)	VH (276 K ppm)	A&L MIII	5.7		
462	GRBXM 3	20		H (95 P ppm)	M+ (117 K ppm)	A&L MIII	6.5		
462	GRBXM 4	12	2017-Fa	H (81 P ppm)	M- (62 K ppm)	A&L MIII	6.5		
462	GRBXM 6	4	2014-Fa	H (69 P ppm)	M (76 K ppm)	A&L MIII	5.7		
462	GRBXM 7	14	2015-Su	L+ (20 P ppm)	M (72 K ppm)	A&L MIII	7.2		
462	GRBXM 9	5	[No Test]	, , ,					
462	GRBXM 10	20	2017-Fa	H- (58 P ppm)	M- (70 K ppm)	A&L MIII	5.8		
464	GRBXM 5	18	2017-Fa	M+ (46 P ppm)	VH (295 K ppm)	A&L MIII	5.9		
464	GRBXM 8	17		H- (58 P ppm)	VH (365 K ppm)	A&L MIII	6.1		

#### Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
462	462/2, 5	GRBXM 1	14	Elioak	IVa	III	III	111	
	462/6	GRBXM 2*	19	Elioak	IVb	Ш	Ш	Ш	Poor Drainage, High Slope
	462/8	GRBXM 3	20	Meadowville	IVa	Ш	Ш	Ш	
	462/9	GRBXM 4	12	Meadowville	Illa	li .	Ш	II	
	462/1	GRBXM 6*	4	Hatboro	IVb	III	Not Suited	IV	Poor Drainage
	462/8	GRBXM 7*	14	Hatboro	IVa	11	Ш	Ш	Poor Drainage
	462/16	GRBXM 9*	5	Hatboro	IVb	Ш	Not Suited	IV	High Leaching, Poor Drain
	462/8	GRBXM 10	20	Meadowville	IVa	III	III	Ш	
464	464/11, 13	GRBXM 5*	18	Hatboro	IVb	Ш	Not Suited	IV	High Leaching, Poor Drain
	464/14, 15	GRBXM 8*	17	Hatboro	IVb	Ш	Ш	III	Poor Drainage

<sup>\*</sup> Do not apply manure or biosolids more than 30 days prior to planting. Apply commercial fertilizer nitrogen to row crops in split spring applicaions.

#### Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
1	>170	>80	>64	>6	>4.0
II	150-170	70-80	56-64	4-6	3.5-4.0
III	130-150	60-70	48-56	<4	3.0-3.5
IV	100-130	50-60	40-48	NA	<3.0
V	<100	<50	<40	NA	NA

#### **Farm Summary Report**

Plan:

**New Plan** 

Spring, 2018 - Summer, 2020

Farm Name:

**Bobby McDaniel** 

Location:

Greene

Specialist:

John Doe

N-based Acres: 144.0 P-based Acres: 0.0

Tract Name: FSA Number:

Location:

Greene

Field Name:

**GRBXM 1** 

**Total Acres:** 

14.20 Usable Acres: 14.20

FSA Number: 2, 5

462

462

Tract:

462

Location:

Greene

Slope Class:

Hydrologic Group: С

D

Riparian buffer width: 0 ft Distance to stream: 0 ft

#### Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE Su-2015 PH

5.1

M(35 P ppm)

Κ M(92 K ppm)

Lab

A&L MIII

Soils:

**PERCENT** 

SYMBOL

**SOIL SERIES** 

9	AsD	Ashe
46	EnC3	Elioak
6	Hb	Hatboro
40	MvB	Meadowville

#### Field Warnings:

Field Name:

**GRBXM 2** 

Total Acres:

19.00 Usable Acres: 19.00

FSA Number: Tract:

: 6 462

С

Tract: Location:

Greene

Slope Class:

Hydrologic Group:

D

Riparian buffer width: 0 ft Distance to stream: 0 ft

#### Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

#### Soil Test Results:

DATE PH P K Lab Su-2015 5.7 M+(42 P ppm) VH(276 K ppm) A&L MIII

#### Soils:

PERCENT	SYMBO	OL	SOIL SERIES
2	EIB	Elioak	
38	EnC3	Elioak	
19	EnD3	Elioak	
18	Hb	Hatbor	0
22	MvB	Meado	wville

#### Field Warnings:

Environmentally Sensitive Soils due to:

Soils with high potential for subsurface lateral flow based on soil texture and poor drainage

Soils with perent slope in excess of 15%

Field Name: GRBXM 3

Total Acres: 20.30 Usable Acres: 20.30

FSA Number: 8 Tract: 462

Location: Greene

Slope Class: B Hydrologic Group: D

Riparian buffer width: 0 ft Distance to stream: 0 ft

#### Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab Fa-2017 6.5 H(95 P ppm) M+(117 K ppm) A&L MIII

Soils:

**PERCENT** SYMBOL **SOIL SERIES** DkB3 Dyke 10 DkC3 Dyke 18 28 EnC3 Elioak 13 Hb Hatboro 31 MvB Meadowville

Field Warnings:

Field Name: GRBXM 4

Total Acres: 11.60 Usable Acres: 11.60

FSA Number: 9 Tract: 462

Location: Greene

Slope Class: B Hydrologic Group: D

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab Fa-2017 6.5 H(81 P ppm) M-(62 K ppm) A&L MIII

Soils:

PERCENT SYMBOL SOIL SERIES

EnC3 Elioak
Hb Hatboro
MvB Meadowville

Field Warnings:

Field Name: GRBXM 6

Total Acres: 4.20 Usable Acres: 4.20

FSA Number: 1 Tract: 462

Location: Greene

Slope Class: B Hydrologic Group: D

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

Fa-2014 5.7 H(69 P ppm) M(76 K ppm) A&L MIII

Soils:

PERCENT SYMBOL SOIL SERIES

5 EnC3 Elioak 84 Hb Hatboro 11 MvB Meadowville

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with high potential for subsurface lateral flow based on soil texture and poor drainage

Field Name: GRBXM 7

Total Acres: 13.70 Usable Acres: 13.70

FSA Number: 8 Tract: 462

Location: Greene

Slope Class: B Hydrologic Group: D

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

Su-2015 7.2 L+(20 P ppm) M(72 K ppm) A&L MIII

Soils:

PERCENT	SYMB	OL	SOIL SERIES
3	DkC3	Dyke	
5	EnC3	Elioak	
54	Hb	Hatbord	)
38	MvB	Meadov	vville

#### Field Warnings:

Environmentally Sensitive Soils due to:

Soils with high potential for subsurface lateral flow based on soil texture and poor drainage

Field Name: GRBXM 9

Total Acres: 5.30 Usable Acres: 5.30

FSA Number: 16 Tract: 462

Location: Greene

Slope Class: B Hydrologic Group: D

Riparian buffer width: 0 ft Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab [NO TEST]

Soils:

PERCENT SYMBOL SOIL SERIES
2 AsC Ashe
3 AsD Ashe
95 Hb Hatboro

Field Warnings:

Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

Soils with high potential for subsurface lateral flow based on soil texture and poor drainage

Soils with perent slope in excess of 15%

Field Name: GRBXM 10

Total Acres: 20.40 Usable Acres: 20.40

FSA Number: 8 Tract: 462

Location: Greene

Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft Distance to stream: 0 ft

#### Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab Fa-2017 5.8 H-(58 P ppm) M-(70 K ppm) A&L MIII

Soils:

PERCENT	SYMB	OL SOIL SERIES
5	AsC	Ashe
4	CgB	Chatuge
23	DkC3	Dyke
24	EnC3	Elioak
9	Hb	Hatboro
35	MvB	Meadowville

#### Field Warnings:

**Tract Name:** 464 FSA Number: 464

Location: Greene

Field Name: GRBXM 5

Total Acres: 18.20 Usable Acres: 18.20

FSA Number: 11, 13 Tract: 464

Location: Greene

Slope Class: C Hydrologic Group: D

Riparian buffer width: 0 ft Distance to stream: 0 ft

#### Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

#### Soil Test Results:

DATE PH P K Lab Fa-2017 5.9 M+(46 P ppm) VH(295 K ppm) A&L MIII

#### Soils:

PERCENT **SYMBOL SOIL SERIES** AsD 23 Ashe EIB Elioak 1 29 EnC3 Elioak 38 Hatboro Hb Meadowville 9 MvB

#### Field Warnings:

Environmentally Sensitive Soils due to:

Soils with potential for leaching based on soil texture or excessive drainage

Soils with high potential for subsurface lateral flow based on soil texture and poor drainage

Soils with perent slope in excess of 15%

Field Name:

**GRBXM 8** 

Total Acres:

17.10 Usable Acres: 17.10

FSA Number:

14, 15

Tract:

464

В

Location:

Greene

Slope Class:

Hydrologic Group:

D

Riparian buffer width: 0 ft Distance to stream: 0 ft

#### Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

#### Soil Test Results:

DATE PH P K Lab Fa-2017 6.1 H-(58 P ppm) VH(365 K ppm) A&L MIII

#### Soils:

PERCENT	SYMBO	OL	SOIL SERIES
2	DkB3	Dyke	
17	DkC3	Dyke	
15	EnC3	Elioak	
51	Hb	Hatbor	0
15	MvB	Meado	wville

#### Field Warnings:

Environmentally Sensitive Soils due to:

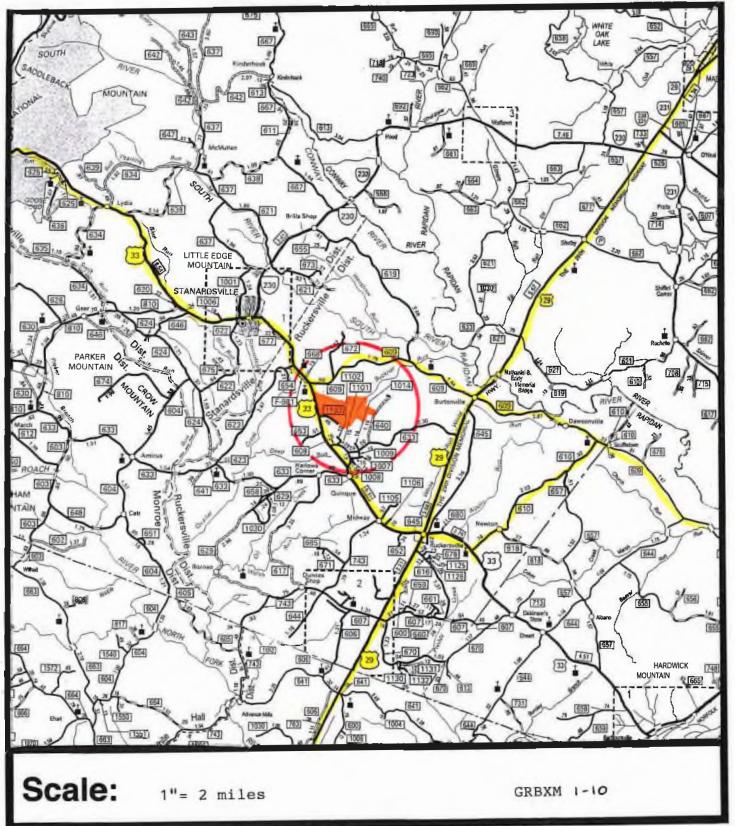
Soils with high potential for subsurface lateral flow based on soil texture and poor drainage

## MAPS

## Recyc Systems. Inc.

(Biosolids Land Application)





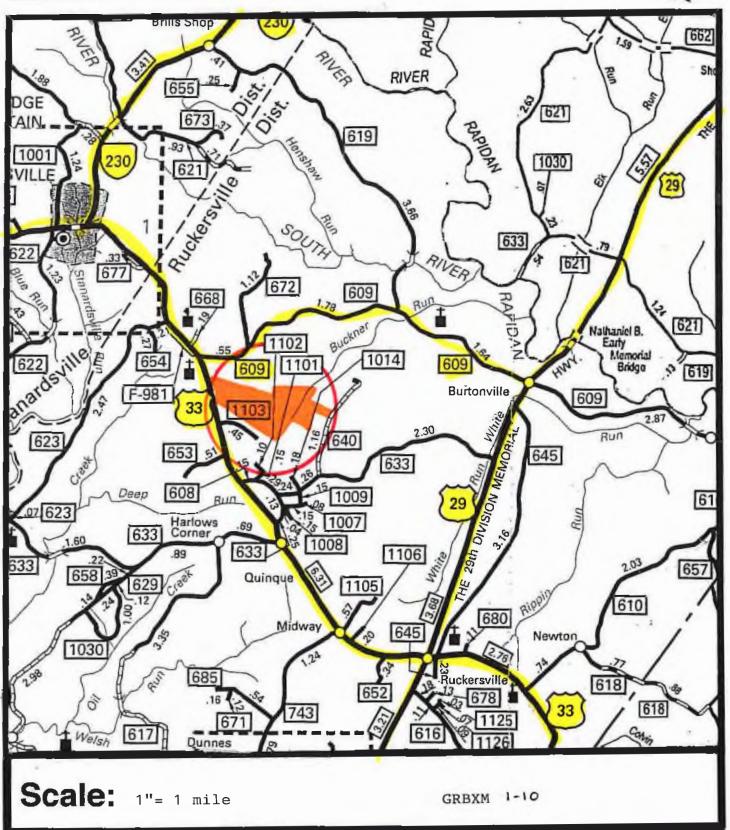
5-21-18

**VICINITY MAP** 

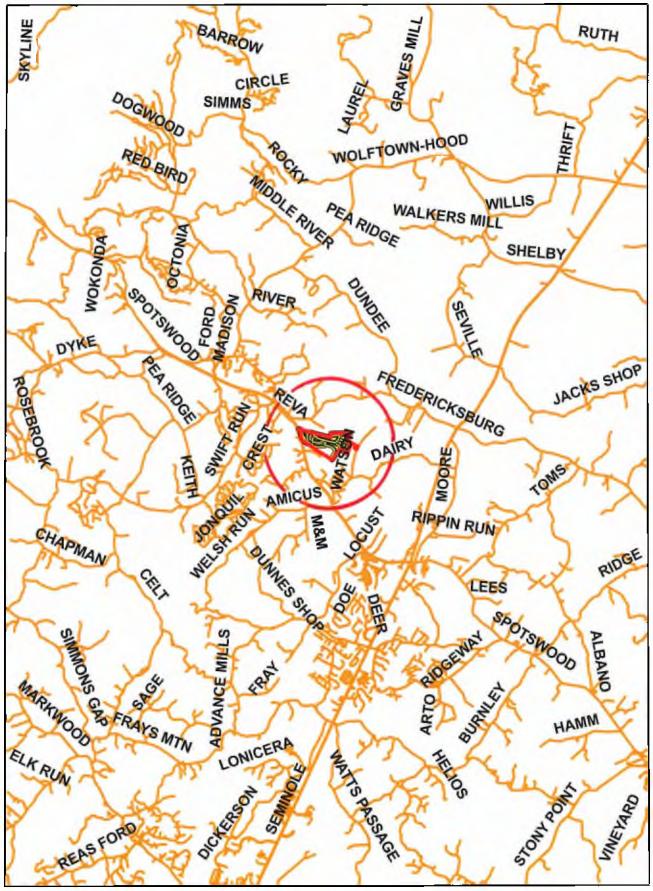
## Recyc Systems.

(Biosolids Land Application)



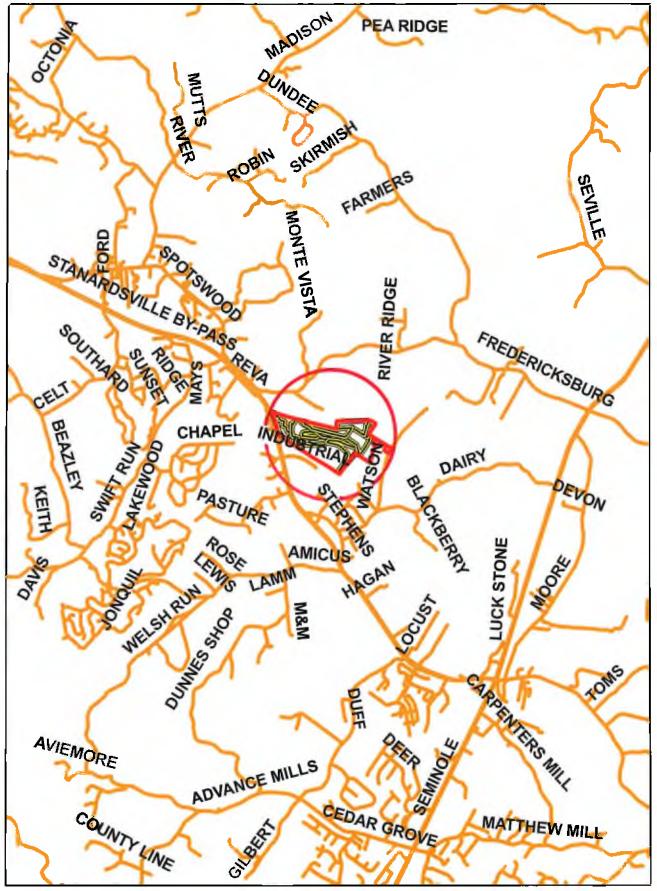






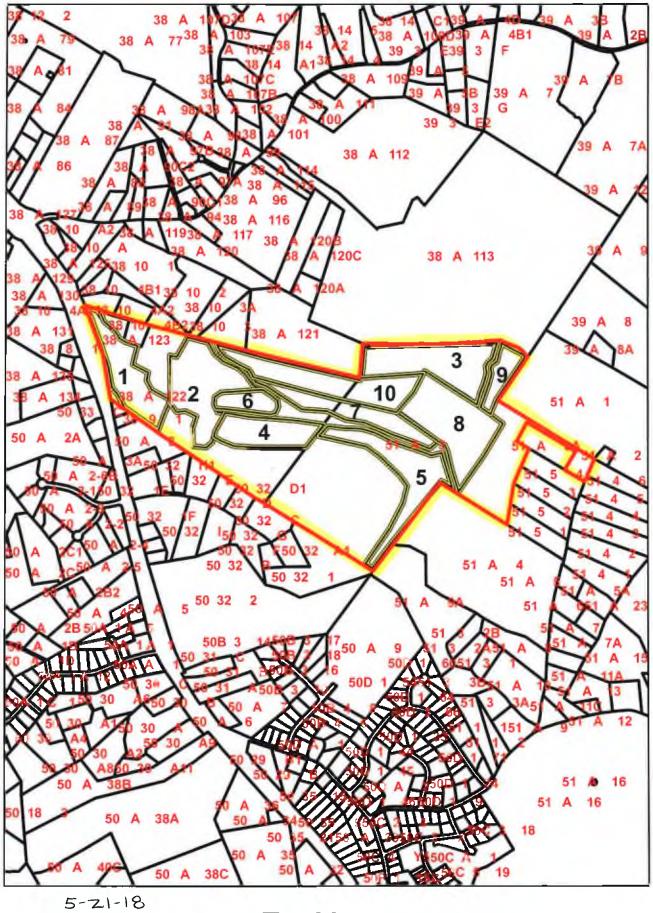






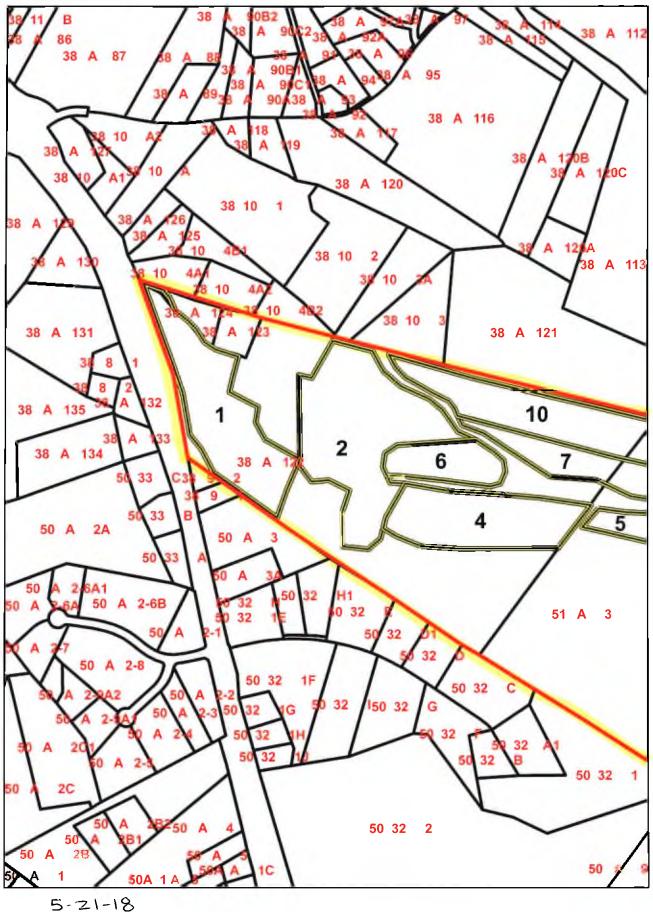




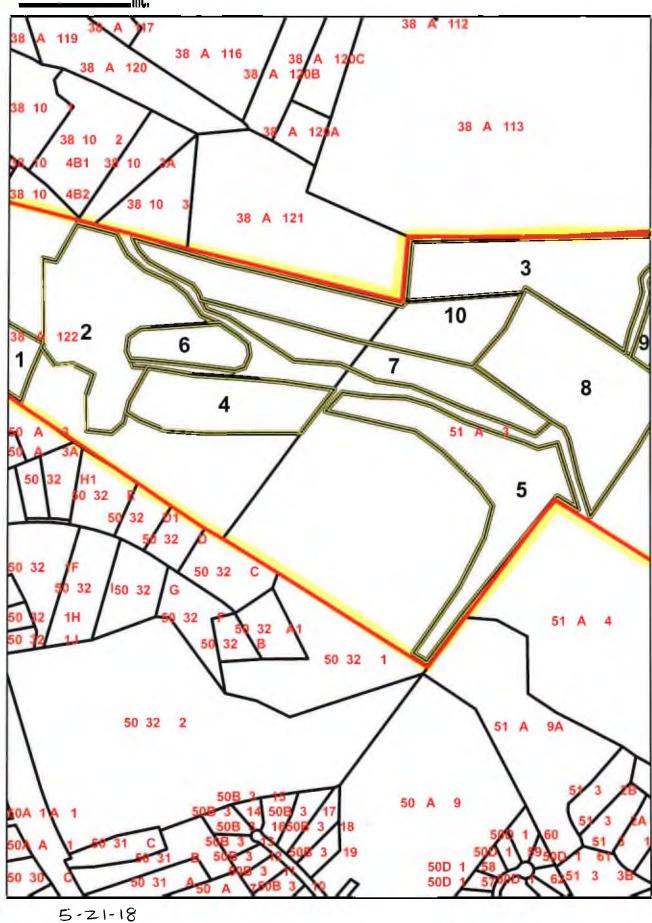




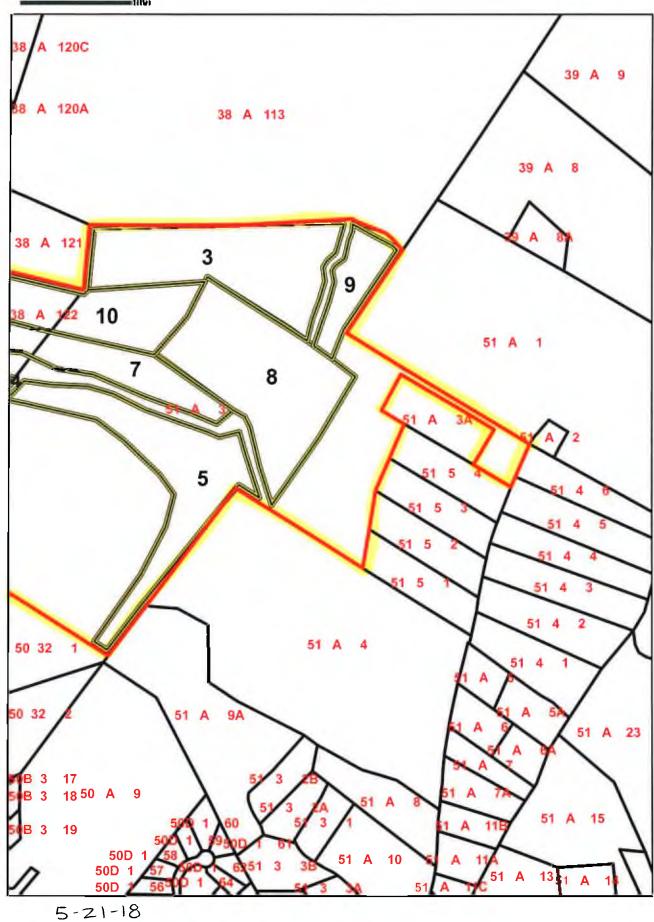














#### **ADJOINING LANDOWNERS**

## Bobby McDaniel

### **GREENE COUNTY**

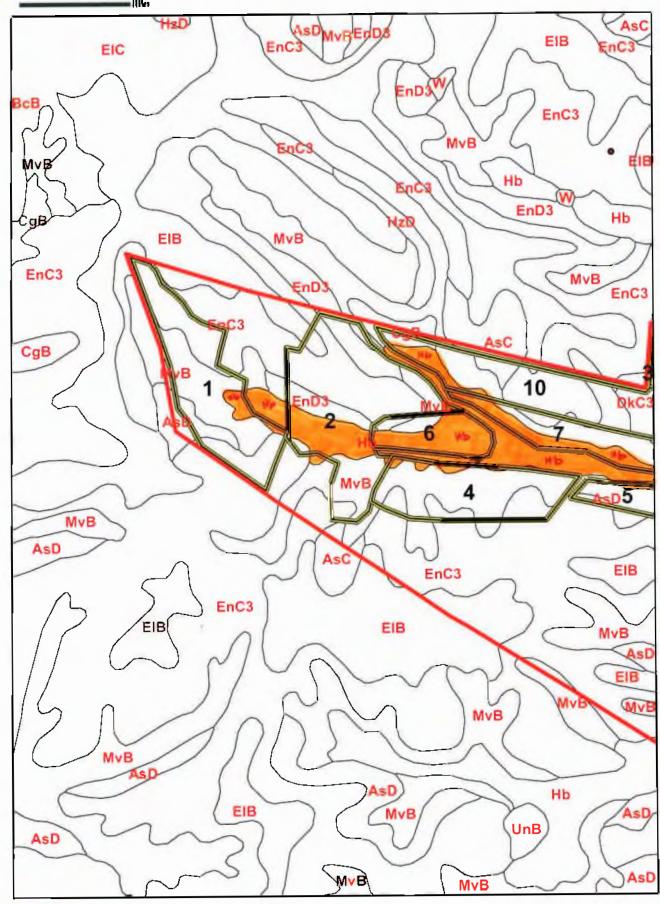
Tax Map	Parcel #	Owner Name(s)	
	2 442 442 17		
38-A	113	Richard L. and Marie C. Durrer	
	121	James A. Loder and Jennifer M. Paulson	
	130	Richard R. and Eleanor J. Harris	
	131	Church-First Bible Baptist	
		Travenor and Evelyn Harlow Trustees, Harlow Revocable Living	
	132	Trust	
	133	Tina Marie Harlow c/o Tina Boger	
		Travenor and Evelyn Harlow Trustees, Harlow Revocable Living	
38-8	1	Trust	
38-9	1	Evelyn P. Deane	
	2	Evelyn P. Deane	
	_	<b></b>	
38-10	3	Lenis D. and Craig Gibson	
	3A	Lenis D. and Craig Gibson	
	4A1	Ginger McDaniel and Billy Jo Fitzgerald	
	4A2	Bobby F. and Joann C. McDaniel	
	4B2	Bobby F. and Joann C. McDaniel	
50-A	3	Rapidan Service Authority	
50.22	1	N. 11.	
50-32	1	Milton Oliver	
	C D	Mundies LLC	
	D1	Mickey Winky and Speedy's LLC c/o Boyd McCauley Elite Custom Ironworks LLC	
	E E		
	H	TWP Properties LLC Chris Anderson	
	11	Cinto / midorson	
50-33	С	Rapidan Service Authority	

Tax Map	Parcel #	Owner Name(s)
51-A	1	Barbara B. and W. Jesse III Nimmo
31-A	2	Barbara B. Nimo
	3A	
	I I	Bradley T. and Jennifer McDaniel
	4	Josiah Hundley
	9A	Marshall L. and Violet H. Watson
51-4	5	Stephen R. and Sandra E. Barber
	6	Michael John Harrison and Tara Yancey
51-5		William K. and Stephanie E. Dowell
		Lonny C. Tilley
	2 3 4	Gary S. Liles and Judith A. Levine
	3	Karen J. Davis
	1 4	Karen J. Davis
	1	

\* 1

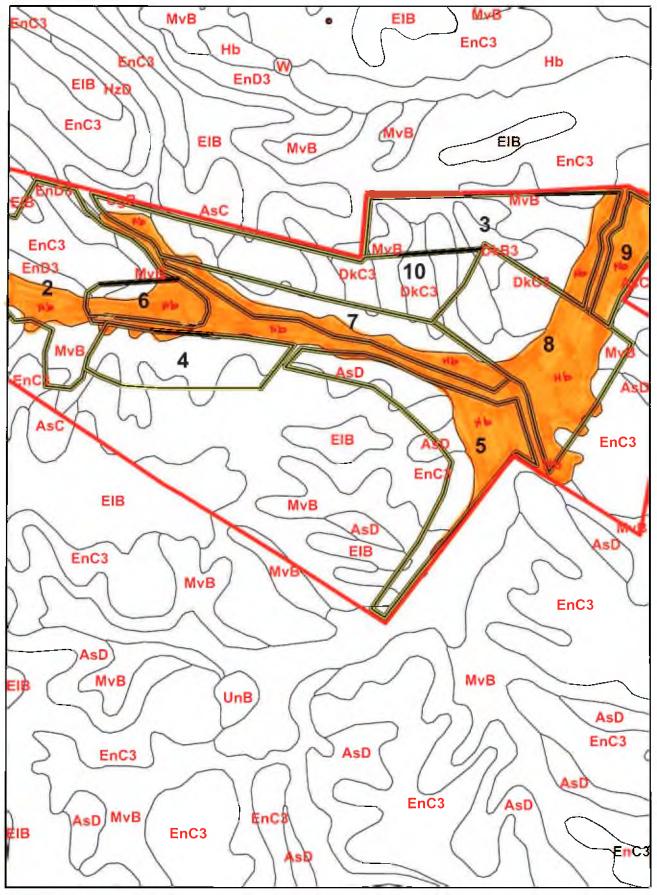
2.1

-1







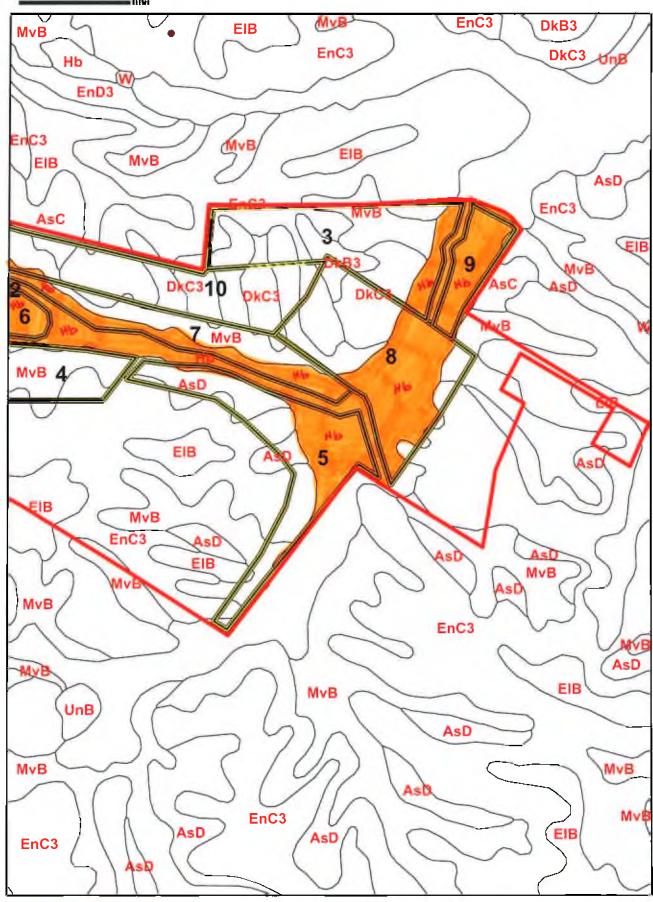




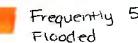
Frequently 5-21-18 Flooded

Soil Map

1 in = 660 feet























N →

1 inch = 688 feet

Farm: 659

Tract: 462



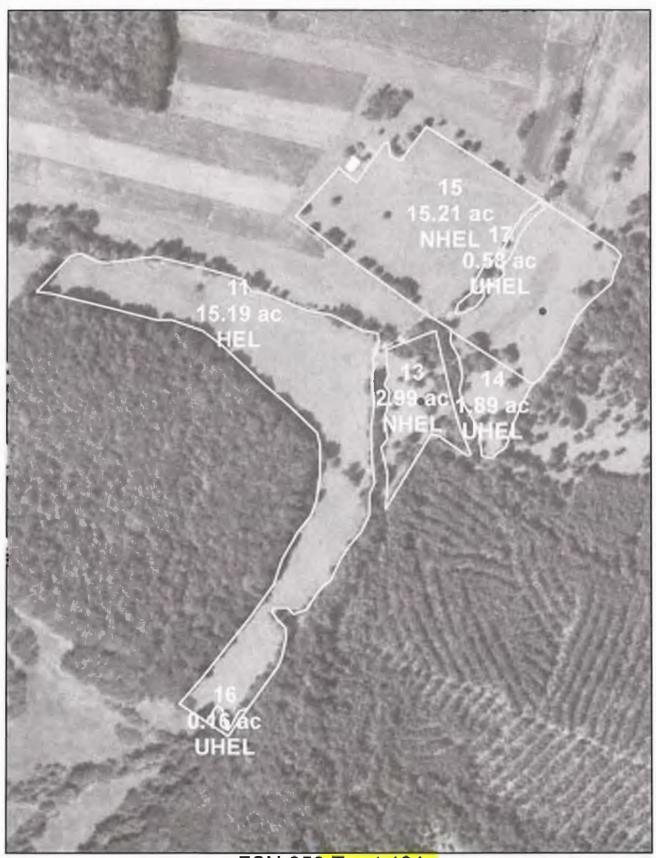
Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original dermination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.



Greene, VA

March 30, 2016

# USDA AGRICULTURE



FSN 659 Tract 464 Bobby McDaniel

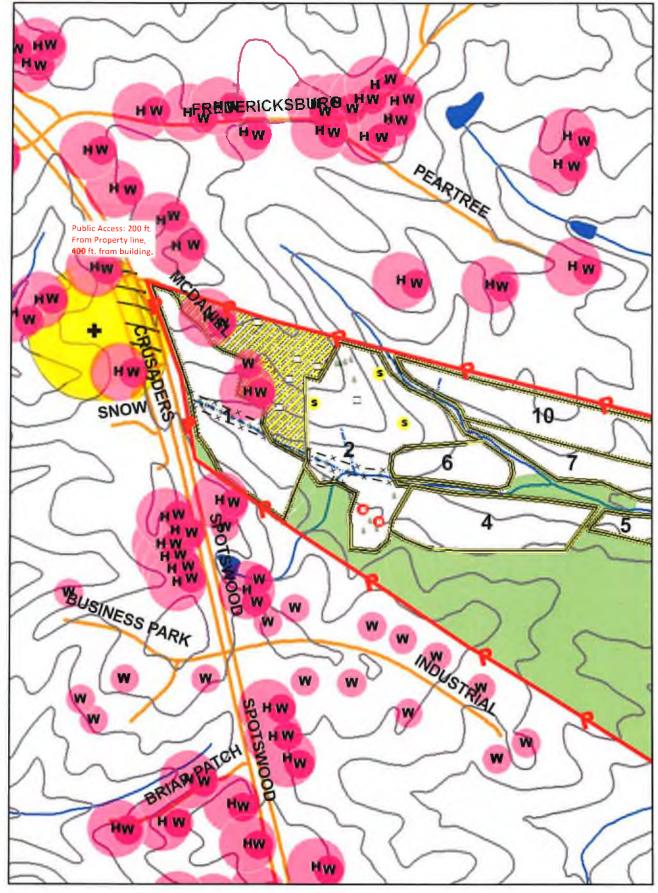


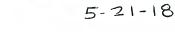
#### **Legend For Site Plan**

Symbol	Feature	Minimum Setback
HOM	House and Well	200 feet from occupied dwelling * 100 feet from water supply wells or springs
<b>w s</b>	Well or Spring	100 feet from water supply wells or springs
~	Streams or Surface Water	35 feet with 35 foot vegetated buffer 100 feet without vegetated buffer
ш	Wet Spot	
	Trees and Woods	
	Private Drive	
R	Rock Area/Rock Outcrop	25 feet from rock outcrops 50 feet from limestone rock outcrops
Ξ	Severely Eroded Spot	18 Inch minimum depth of soil
	Sink Hole	100 feet from open sinkholes 50 feet from closed sinkholes
	State Road	10 feet from side of roadway
	Fence / Field Boundary	
_P _ P_ P_	Property Line	100 feet from property line *
SL S	Slope	15% maximum
	Hashed out Area	No application

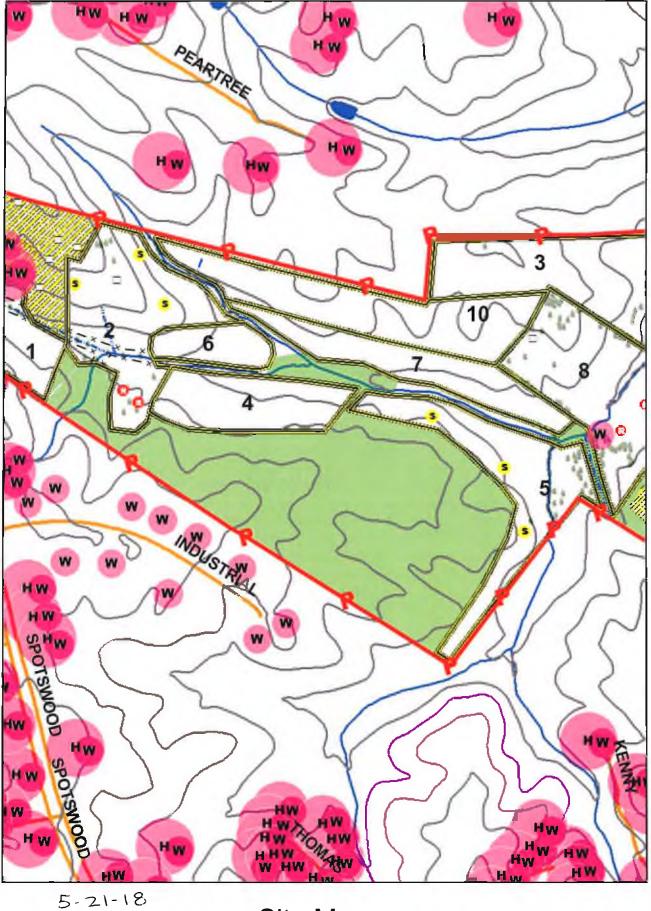
<sup>\*</sup>Buffer can be reduced or waived upon written consent from landowner.







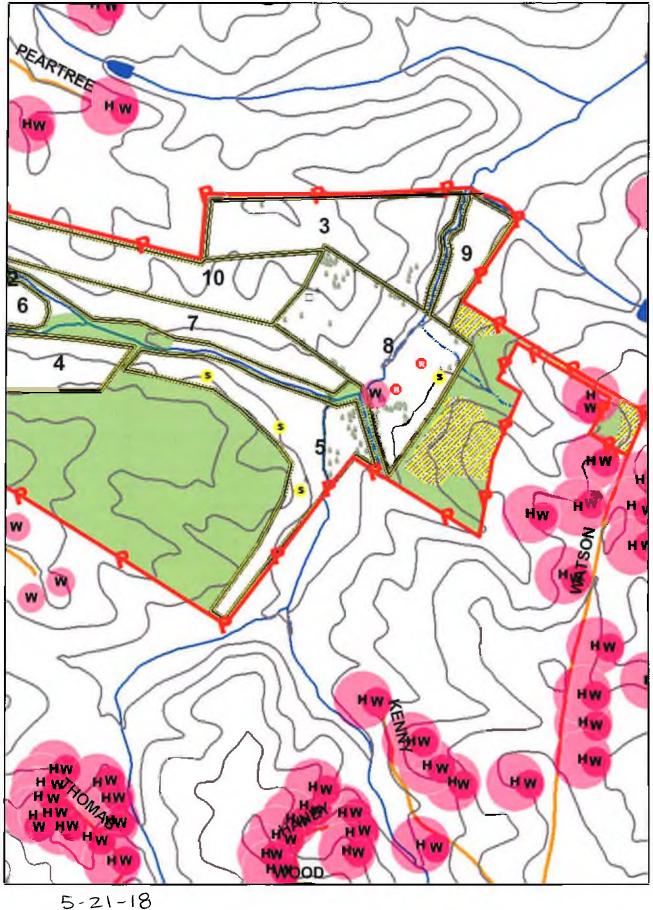






Site Map







Site Map



